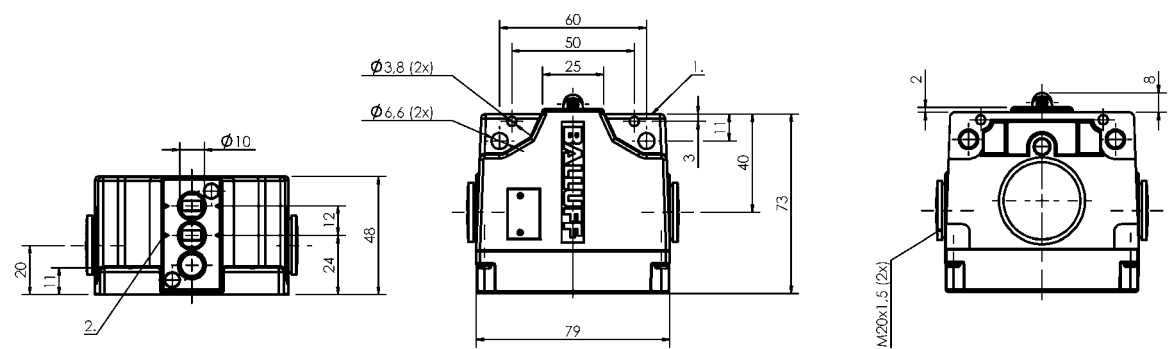
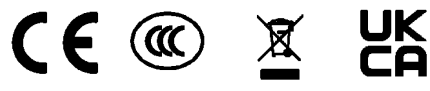


Mechanical Cam Switches  
BNS 813-B02-R12-61-C-22-02  
Order Code: BNS02H2



1) Reference edge, 2) Mark. Safety switch position



Basic features

|                     |                                  |
|---------------------|----------------------------------|
| Approval/Conformity | CE<br>UKCA<br>CCC<br>WEEE        |
| Basic standard      | IEC 60947-5-1                    |
| Operating principle | 1-2. Switch position: Mechanical |
| Version             | Safety EN 60204-1                |

Display/Operation

|                    |                            |
|--------------------|----------------------------|
| Function indicator | 1-2. Switch position: None |
|--------------------|----------------------------|

Electrical connection

|                 |                                      |
|-----------------|--------------------------------------|
| Connection type | 1-2. Switch position: Screw terminal |
|-----------------|--------------------------------------|

Electrical data

|                               |                                                                                                                                                     |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Continuous current            | 1-2. Switch position: 6 A                                                                                                                           |
| Rated operating voltage Ue    | 1-2. Switch position: 250 V AC                                                                                                                      |
| Switching function mechanical | NC forced-opening per VDE<br>Double-interrupting<br>Normally open with snap funct.<br>One NO and one NC<br>Dual changeover<br>galvanically isolated |
| Switching rate                | 1-2. Switch position: 160/min                                                                                                                       |

Environmental conditions

|                     |            |
|---------------------|------------|
| Ambient temperature | -5...85 °C |
| IP rating           | IP67       |

Functional safety

|                       |                                 |
|-----------------------|---------------------------------|
| B10d (EN ISO 13849-1) | BSE 85: 1 mil. switching cycles |
|-----------------------|---------------------------------|

Material

|                                      |                                              |
|--------------------------------------|----------------------------------------------|
| Housing material                     | Aluminium, Anodized                          |
| Housing material, surface protection | Anodized                                     |
| Material contacts                    | 1-2. Switch position: Silver                 |
| Plunger material                     | 1-2. Switch position: 1.4034 stainless steel |

Mechanical data

|                               |                                                   |
|-------------------------------|---------------------------------------------------|
| Approach direction            | longitudinal, parallel to attachment surface      |
| Approach speed                | 1-2. Switch position: 60 m/min                    |
| Distance cam - reference edge | 1-2. Switch position: 4.50...5.00 mm              |
| Flange, feed-through          | 1 hole                                            |
| Installation                  | Vertical                                          |
| Life expectancy mechanical    | 1-2. Switch position: 1 mil. switching operations |
| Number of switching positions | 2x Roller Mechanical                              |
| Plunger style                 | 1-2nd switch position: Roller                     |
| Switch actuation force        | 1-2. Switch position: 30 N                        |
| Switching element             | 1-2. Switch position: BSE 85                      |

Wiring Diagrams

BSE 85

